

**TRANSLATION**

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference<br><b>WS 2234 PCT</b>                                     | <b>FOR FURTHER ACTION</b>  | See Form PCT/IPEA/416  |
| International application No.<br><b>PCT/EP2004/008670</b>                                       | International filing date ( <i>day/month/year</i> )<br><b>03.08.2004</b> | Priority date ( <i>day/month/year</i> )<br><b>16.10.2003</b> |
| International Patent Classification (IPC) or national classification and IPC<br><b>D01H4/38</b> |  |  |
| Applicant<br><b>SAURER GMBH &amp; CO. KG</b>  |  |  |

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| 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.   |
| 2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.   |
| 3. This report is also accompanied by ANNEXES, comprising:<br>a. <input type="checkbox"/> ( <i>sent to the applicant and to the International Bureau</i> ) a total of _____ sheets, as follows:<br><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).<br><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.<br>b. <input type="checkbox"/> ( <i>sent to the International Bureau only</i> ) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). |
| 4. This report contains indications relating to the following items:<br><input checked="" type="checkbox"/> Box No. I Basis of the report<br><input type="checkbox"/> Box No. II Priority<br><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability<br><input type="checkbox"/> Box No. IV Lack of unity of invention<br><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement<br><input type="checkbox"/> Box No. VI Certain documents cited<br><input type="checkbox"/> Box No. VII Certain defects in the international application<br><input type="checkbox"/> Box No. VIII Certain observations on the international application   |

|   |                                   |
|---|-----------------------------------|
| Date of submission of the demand        | Date of completion of this report |
| Name and mailing address of the IPEA/EP | Authorized officer                |
| Facsimile No.                           | Telephone No.                     |

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/008670

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-13 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. 1-8 \_\_\_\_\_ as originally filed/furnished
- nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- sheets 1/6-6/6 \_\_\_\_\_ as originally filed/furnished
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/008670

| Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement   |                   |     |
|-----------|---|-------------------|-----|
| 1.        | Statement   |                   |     |
|           | Novelty (N)   | Claims <u>1-8</u> | YES |
|           |   | Claims _____      | NO  |
|           | Inventive step (IS)   | Claims <u>1-8</u> | YES |
|           |   | Claims _____      | NO  |
|           | Industrial applicability (IA)   | Claims <u>1-8</u> | YES |
|           |   | Claims _____      | NO  |
| 2.        | Citations and explanations (Rule 70.7)  |                   |     |
|           | <p>This report makes reference to the following document:</p> <p>D1: DE-A-19712881 (SCHLAFHORST) 1 OCTOBER 1998 (1998-10-01)</p> <p><b>1 Claim 1 - Novelty (PCT Article 33(2))</b></p> <p>1.1 D1, which is considered to be the prior art closest to the subject matter of claim 1, discloses (the references in parentheses are to D1):</p> <p>fiber guide channel (14) for the pneumatic transport of individual fibers, which are combed out of a feed fiber band by an opening roller (21) that rotates in an opening roller housing (17) of an open-end spinning device (1), to a spinning rotor (3) running at high speed in a rotor housing (2) that can be subjected to negative pressure; on the inlet side, the width of the fiber guide channel (14) located in a cover element (8) for closing the rotor housing (2) is adapted to the fittings of the opening roller (21); the inlet</p> |                   |     |

| Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement   |
|-----------|---|
|           | <p>opening (48) of the fiber guide channel has a slot-like shape and the maximum extension (B) of the inlet opening (48) extends parallel to the rotational axis (55) of the opening roller (21).</p> <p>1.2 Thus the subject matter of claim 1 differs from the known fiber guide channel in that the outlet opening of the fiber guide channel has a slot-like shape; in that the maximum expansion of the outlet opening is situated at a <math>90^{\circ} \pm 15^{\circ}</math> rotation about an imaginary center line relative to the maximum expansion of the inlet opening; in that the fiber guide channel has a zone Z between the inlet opening and the outlet opening which is substantially cylindrical; in that the fiber guide channel cross-section becomes continuously smaller from the inlet opening to zone Z.</p> <p>1.3 The subject matter of claim 1 is novel (PCT Article 33(2)).</p> <p><b>2 Claim 1 - Inventive step (PCT Article 33(3))</b></p> <p>2.1 Proceeding from the prior art, the problem addressed by the present invention is that of developing a fiber guide channel in such a way that its shape ensures extension and bundling of fibers on their way to the fiber-sliding surface.</p> <p>2.2 The solution proposed in claim 1 is neither known nor obvious from the available prior art, and therefore involves an inventive step as per PCT</p> |

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

Article 33(3).

**3      Dependent claims**

Claims 2 to 8 are dependent on claim 1 and  
therefore also meet the PCT requirements for  
novelty and inventive step.

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